

1. Meaning of Memory columns in /sdf/mon:

Presentation layer on /sdf/mon:

Structure

/SDF/USER_CONTEXT

Active

Short Description

User Context Information

Attributes

Components

Input Help/Check

Currency/quantity fields

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Valid After Kernel 7.4 SP02: (ST-PI 7.4 and 7.31)

Kernel 7.49: Example of Kernel call 'SSI_SERVER_INFO_GET_SESSIONS':

Structure

SSI_SESSION_INFO

Active

Short Description


Session Information

Attributes

Components

Input Help/Check

Currency/quantity fields



Predefined Type

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Component	Typing Method	Component Type	Data Type	Length	Decim...	Short Description
MEMORY	Types	SSI MEMSIZE	DEC	20		0 Memory Used in Extended Memory (EM)
LOCATION_INFO	Types	SSI LOGON LOCATI	STRING	0		0 Information About Client Host of User
APPLICATION	Types	SSI APPLICATION	STRING	0		0 Application
APPLICATION_INFO	Types	SSI APPLICATION	STRING	0		0 Additional Information About the Application
RFC HDL	Types	SSI RFC HDL	STRING	0		0 Conversation ID
RFC_TYPE	Types	SSI RFC_TYPE	INT4	10		0 RFC Type
TRACE	Types	SSI TRACE_LEVEL	INT1	3		0 Trace Level
PRIORITY	Types	SSI PRIORITY	INT4	10		0 Priority
MEMORY BRUTTO	Types	SSI MEMSIZE BRUT	DEC	20		0 Memory Used in Extended Segments (ES)
MEMORY ABAP	Types	SSI MEMSIZE ABAP	DEC	20		0 Memory Used by ABAP Virtual Machine
MEMORY HYPER	Types	SSI MEMSIZE HYPE	DEC	20		0 Hyper Memory Size of Session
MEMORY HEAP	Types	SSI MEMSIZE HEAP	DEC	20		0 Heap Memory Used in Process
OPEN_TASKS	Types	SSI OPEN_TASKS	INT4	10		0 Open Tasks in this Session
ACT PROGRAM	Types	SSI MAIN_PROGRAM	CHAR	40		0 Name of Main Program
WEBSOCKET_HANDLE	Types	SSI WEBSOCKET_HA	SSTRING	256		0 WebSocket Handle
SAP GUI VERSION	Types	SSI SAP_GUI_VERS	CHAR	10		0 Version of SAP GUI
PAGING_BLOCKS	Types	SSI SAP_PAGING_B	INT4	10		0 Number of Used SAP Paging Blocks
STATE	Types	SSI LOGON_STATE	INT4	10		0 Logon State

New Mapping:

```
<fs_modes_line>-memsumkb = <fs_session_line>-memory / 1024.  
<fs_modes_line>-privsum = <fs_session_line>-memory_heap.  
<fs_modes_line>-mem_ext = <fs_session_line>-memory_brutto / 1000.  
<fs_modes_line>-mem_heap = <fs_session_line>-memory_heap / 1000000.
```

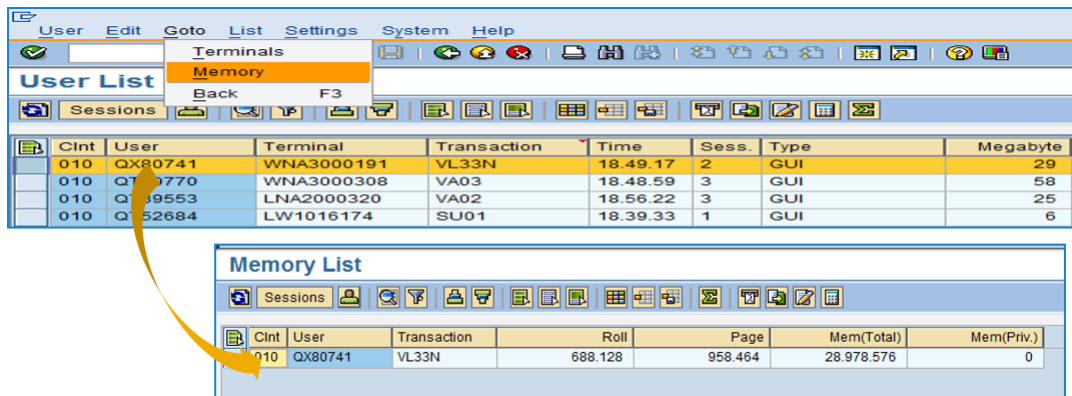
Valid before Kernel 7.4 SP02: (lower than ST-PI 7.31)

MEMSUMKB – Same as SM04 Total Memory

PAGE – overall page are used (SAP Server page area same as in ST02, NOT OS paging)

ATTACHED - same as in ST02 x = attached, which means session was in work process when the sm04 snapshot was made.

PRIVSUM - overall private memory is used, this means the HEAP memory (Kernel 7.4 SP02, PROC memory does not calculated here)



The screenshot shows the SAP ST02 interface. The 'User List' table is at the top, and the 'Memory List' table is below it. An arrow points from the first row of the 'User List' to the first row of the 'Memory List'.

Cint	User	Terminal	Transaction	Time	Sess.	Type	Megabyte
010	QX80741	WNA3000191	VL33N	18.49.17	2	GUI	29
010	Q709770	WNA3000308	VA03	18.48.59	3	GUI	58
010	Q709553	LNA2000320	VA02	18.56.22	3	GUI	25
010	Q7052684	LW1016174	SU01	18.39.33	1	GUI	6

Cint	User	Transaction	Roll	Page	Mem(Total)	Mem(Priv.)
010	QX80741	VL33N	688.128	958.464	28.978.576	0

Direct mapping in the code via Kernel call 'ThUsrInfo'.

Structure	/SDF/USER_CONTEXT	Active
Short Description	User Context Information	

Attributes	Components	Entry help/check	Currency/quantity fields
Predefined Type			
Component	RT...	Component type	Data Type Length Decim... Short Description
UNAME		SYUNAME	CHAR 12 0 User Name
HANDLE			INT4 10 0 Handle
TCODE		SYTCODE	CHAR 20 0 Current Transaction Code
MEMSUMKB			INT4 10 0 Memory Consumption in KB
ROLL			INT4 10 0 Roll Memory Consumption
PAGE			INT4 10 0 Page Memory Consumption
ATTACHED			CHAR 1 0 Attached
TIME			CHAR 80 0 Time
PRIVSUM		STEP12	CHAR 12 0 EM layer step size
I0		STEP12	CHAR 12 0 EM layer step size
I1		STEP12	CHAR 12 0 EM layer step size
I2		STEP12	CHAR 12 0 EM layer step size
I3		STEP12	CHAR 12 0 EM layer step size

```
ls_mode-memsumkb = ls_user_blkسد-memsum / 1024.
ls_mode-roll = ls_user_blkسد-roll.
ls_mode-page = ls_user_blkسد-page.
ls_mode-privsum = ls_user_blkسد-privsum.
```

2. Meaning of CPU columns in /sdf/mon:

As of 7.4 these values are mapped directly via method of GET_TOP_CPUPROCESSES of class CO_WSSAPOSOL basis component BC-CCM-MON-OS.